

FUEL AND WASTEWATER STORAGE DEVICE AND METHOD
FOR A FUEL CELL

ABSTRACT

[0024] A fuel and wastewater storage device for a fuel cell includes: a housing having an interior; a movable barrier dividing the interior into a first cavity and a second cavity; a fuel port located at the first cavity; and a wastewater port located at the second cavity, wherein the storage device is sized to be contained within a portable electric device. A fuel cell system includes: a fuel cell; a fuel and wastewater storage device in fluid communication with the fuel cell, the storage device includes: a housing having an interior; and a movable barrier dividing the interior into a first cavity and a second cavity. A method of storing a fuel and a wastewater at a storage device for a fuel cell system, the method includes: holding the fuel at a first cavity of the storage device; moving the fuel from the first cavity to a fuel cell; consuming the fuel at the fuel cell; producing the wastewater at the fuel cell; moving the wastewater from the fuel cell to a second cavity at the storage device; and holding the wastewater at the second cavity.